



# भारत का राजपत्र

## The Gazette of India

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No. 30] NEW DELHI, SATURDAY, JULY 28, 1979 (SRAVANA 6, 1901)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि इह अलग संकलन में इप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### PART III—SECTION 2

ऐटेन्ट कार्यालय द्वारा जारी की गई ऐटेन्टों और डिज़ाइनों से रजिस्ट्रियर ऑफिस नाम और नोटिस  
Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta the 28th July 1979

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in brackets are the date, claimed under Section 135 of the Act

21st June 1979

638/Cal/79 Rahul Basu Improvements in or relating to batteryless radio receiver

639/Cal/79 Dibra Prasad Basu Improvements in or relating to electrically propelled vehicles

640/Cal/79 Snampioggetti SpA Process for the preparation of tertiary olefins

22nd June 1979

641/Cal/79 Snampioggetti SpA Aluminum modified silica and its uses as catalyst

642/Cal/79 Snampioggetti SpA Silica based synthetic materials

643/Cal/79 Mitsubishi Jukogyo Kabushiki Kaisha Overhead crane

644/Cal/79 K. A. Grachev (2) J. N. Sule (3) D. N. Tverskoi Straight cutting automatic lathe

23rd June 1979

645/Cal/79 H. S. Sinha Elastochip

646/Cal/79 Punker Ramo Corporation Electrical contact

647/Cal/79 Ushio Kogyo Co. Ltd Handy type dental instrument actuated by low speed air motor

1—167GI/79

25th June 1979

648/Cal/79 Magyar Aluminiumipari Tiszt Process for preparing alumina being suitable for layer chromatography

26th June 1979

649/Cal/79 Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek Ten Behoeve Van Nijverheid, Handel En Vervoer (Nijverheidsonderzoeks INO) Method of driving a rotor rotatable about a rotary axis and a rotor therefor

650/Cal/79 S. Franzen Sohne (GMBH & CO) Combination lock for baggage

651/Cal/79 Texaco Development Corporation Process for the production of methanol and a by-product stream of co-rich gas [Divisional date September 8, 1977]

652/Cal/79 Texaco Development Corporation Process for the production of substantially pure acetic acid and by product oxygen containing organic materials [Divisional date September 8, 1977]

653/Cal/79 The All Prehenter Company, Inc Static seal

654/Cal/79 N. T. Waterbury Reclosable container

655/Cal/79 Siemens Aktiengesellschaft High voltage switchgear

27th June 1979

656/Cal/79 Siemens Aktiengesellschaft Electro acoustic transducer

657/Cal/79 Siemens Aktiengesellschaft Electro acoustic transducer

658/Cal/79 Atlantic Richfield Company Process for the preparation of diphenylmethane dicarbamates and polymethylene polyphenyl carbamates

659/Cal/79. Aikoh Co., Ltd. Structural material for acoustic machine and instruments.

660/Cal/79. Veb Kombinat Medizin—Und Labortechnik Leipzig. Expiratory valve.

661/Cal/79. Proizvodstvennoe Obiedinenie "Uraltektrotryazhmarsh" and Vsesoyuzny elektrotekhnichesky Institut imeni V. I. Lenina. Method of control of transformer on-load tapchanger and device for its implementation.

APPLICATION FOR PATENTS FILED AT  
(DELHI BRANCH)

11th June 1979

413/Del/79. Flir Systems, Inc., "Television Compatible Thermal Imaging System".

414/Del/79. Rexnord, Inc., "Striking Plate for Disintegrating Mill". [Divisional date 31-10-1977]

12th June 1979

415/Del/79. Akhtar Ali Khan, "An Improved Safety Razor".

416/Del/79. Mr. Arun Kumar Gaur, "A Rotary Combustion Engine".

417/Del/79. M/s. Bharat Heavy Electricals Ltd., "A Solar Collector Field Having a storage Tank."

418/Del/79. M/s. Bharat Heavy Electricals Ltd., "A solar field having a storage Tank".

419/Del/79. M/s. Bharat Heavy Electricals Ltd., "A solar field having a storage Tank".

420/Del/79. New Metal Foundries, "A Hydraulic Circuit".

421/Del/79. New Metal Foundries, "A Hydraulic Circuit".

422/Del/79. Mr. Shiv Kumar Bhargava, "A Cleansing apparatus operable on a fluid pressure".

423/Del/79. The Bendix Corporation, "Electrical Connector Assembly".

424/Del/79. Dresser Industries, Inc., "Radial Truck".

425/Del/79. Almuinium Pechxney, "A process for Removing the Essentially Titaniferous Incrustations on the walls of heat Exchangers."

426/Del/79. Olin Corporation, "Method of Treating Asbestos Diaperagms for Electrolytic Cells".

13th June 1979

427/Del/79. Exxon Research and Engineering Company, "Improved solar cells Modules".

428/Del/79. USS Engineers and Consultants, Inc., "Method of Producing Rim-Stabilized Steel Ingots".

429/Del/79. Impact International Pty, Ltd., "Continuous Treatment of Molten Metals". (21st June, 1978).

430/Del/79. Pont-A-Mousson S.A., "Machine for Extracting Centrifuged Pipe".

431/Del/79. Dorr-Oliver Incorporated, "Apparatus and method for the Gravity Settling of Suspended Solids".

14th June 1979

432/Del/79. Produits Chimiques Ugine Kuhlmann, "Improvements to Hydroformylation Reactors".

433/Del/79. Morgan Construction Company, "Process and apparatus for Sequentially Forming and treating steel Rod".

434/Del/79. Turner & Newall Ltd., "Improvements in or relating to Fibrous Sheet Materials". (20th June, 1978).

15th June 1979

435/Del/79. Chief Controller Research & Development, "New Process for Electrodeposition of Platinum on Titanium Metal".

436/Del/79. M/s. J. K. Batteries, "A Frangible Protective Seal".

437/Del/79. R & M Company, "Constructional Tiles".

438/Del/79. Harkishan Singh, Dharm Pal & Vijay Kumar, "Process for the preparation of N(2-Chloroethyl)-Nucleoazasteroids such as 4-(2-Chloroethyl)-4-Aza-5 x-androstan-17-B-01". [Divisional Date 5-8-1977].

439/Del/79. Harkishan Singh, Dharm Pal & Vijay Kumar, "Process for the preparation of N-(2-Chloroethyl)-Nucleoazasteroids such as 4, 17a-di(2-chloroethyl)-4, 17a diaza-D-homo-5 x-androstane". [Divisional Date 5-8-1977].

440/Del/79. Miles Laboratories, Inc., "Specific Binding Assay with a Prosthetic Group as a Label Component".

APPLICATION FOR PATENTS FILED AT THE  
(BOMBAY BRANCH)

25th May 1979

149/Bom/79. Searle (India) Limited, A process for the production of O,O-diethyl-O-quinoxalinyl-(2)-thiophosphate.

150/Bom/79. Searle (India) Limited, A process for the production of O,O-diethyl-O-quinoxalinyl-(2)-thiophosphate.

151/Bom/79. S. A. Gonsalves, A crank device for converting reciprocating stroke motion into a rotating motion.

152/Bom/79. P. M. Medappa, A spring clip for pinning papers.

153/Bom/79. P. M. Medappa, A jaw-type spring clip for pinning papers.

154/Bom/79. S. A. Vaidya, A circuit arrangement for controlling the individual preset power generated by two or more generators'.

26th May 1979

155/Bom/79. Alchemic Research Centre Private Limited, Process for the manufacture of 2, 4, 5-trihalo-phenoxy aliphatic acids and their esters.

156/Bom/79. Alchemic Research Centre Private Limited, Improved process for the preparation of dihalo phenols.

157/Bom/79. G. M. Mistry, Toy feeding bottle.

158/Bom/79. Pritam, Circular air coolers.

28th May 1979

159/Bom/79. Harish Textile Engineers Pvt. Ltd. Double decker automotive vehicles.

31st May 1979

160/Bom/79. Indo Berolina Industries Private Limited, Process for the preparation of O, O-diethyl-O-(2-Quinoxaliny)-phosphorothioate.

161/Bom/79. Indo Berolina Industries Private Limited, Process for the preparation of 2-hydroxyquinoxaline.

1st June 1979

162/Bom/79. K. H. Shah, Multinozzle ultra low volume sprayer.

163/Bom/79. B. L. Chakradeo, Low horse-power variable drive.

4th June 1979

164/Bom/79. M. C. Kaplay, Convection cooler.

5th June 1979

165/Bom/79. J. C. Desai, K. J. Desai and M. J. Desai, A process for the manufacture of screens.

6th June 1979

- 166/Bom/79. Y. K. Mamoowala, S. A. Mamoowala, K. A. Mamoowala and E. S. Mamoowala. A three way cock for use in soda water machines.

7th June 1979

- 167/Bom/79. Hoechst Pharmaceuticals Limited. Process for preparing novel polyoxygenated labdane derivatives having pharmacological activities.

- 168/Bom/79. Ahmedabad Textile Industry's Research Association. Improved slab catcher.

11th June 1979

- 169/Bom/79. M/s. Camphor & Allied Products Ltd. A process for the preparation of (—)-Menthone And (+)-Isomenthone;

- 170/Bom/79. M/s. Camphor & Allied Products Ltd. An Improved Catalyst for the Orthomethylation of Phenols;

- 171/Bom/79. M/s. Camphor & Allied Products Ltd. A process for the preparation of (—)-P-Menth-4(5)-EN-3-ONE;

- 172/Bom/79. M/s. Camphor & Allied Products Ltd. A process for the Optical Purification of Partically Racemic (—)-Menthol To Optically Pure (—)-Menthol;

12th June 1979

- 173/Bom/79. Mr. Ramchandra Shivaji Patwardhan. An Automatic Condensate Drain Valve.

13th June 1979

- 174/Bom/79. Mr. Balbir Kumar Sibal. A system for indicating full cheese in A Baber Colman Spooler Winding Machine.

- 175/Bom/79. Devrapalli Gouri. A Device for Recording and Replaying 4-track Cassette Tapes.

- 176/Bom/79. Prakash Krishna Ratnaparkhi, Ravindra Krishna Ratnaparkhi, Shrikant Raghunath Popbhale. An Amplifier circuit to obtain amplified single frequency output from input signals which are highly distorted and are of very small amplitude.

14th June 1979

- 177/Bom/79. Ravindra Baburao Marathe. An Opto-Electric Sensing System For Yarn Inspection For Use on Winding Machine in Textile Industry.

15th June 1979

- 178/Bom/79. Sudarshan Chemical Industry Ltd. A Process for the preparation of Fugitive Basic Dye Pigments.

- 179/Bom/79. Rathi Industrial Equipments Co. P. Ltd. Vapourised Fuel Oil System.

- 180/Bom/79. Bhikaji Laxman Chakradeo. Boiler Furnace Modifications to control temperature in Horse-Shoe Zone and Combustion Zone.

- 181/Bom/79. Pradip Waran Desai. An Improved Autoclave for Reclaiming Rubber and the Like.

#### APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

18th June 1979

- 104/MAS/79. M/s. Hegde & Golay Ltd. A Method of Making Multilayer Printed Circuit Boards.

- 105/MAS/79. M/s. Hegde & Golay Ltd. A Method of making Plated-Through Hole Printed Circuits.

- 106/MAS/79. M/s. Hegde & Golay Ltd. A Method of making Plated Through Hole Printed Circuit Boards.

- 107/MAS/79. M/s. Hegde & Golay Ltd. A Selective Plating Method of Manufacturing Plated-Through-Hole Printed Circuits with Solder Mask on Bare Copper Conductors.

- 108/MAS/79. M/s. Hegde & Golay Ltd. A Selective Plating Method of Manufacturing Plated-Through-Hole Printed Circuits with Solder Mask on Bare Copper Conductors.

- 109/MAS/79. M/s. Hegde & Golay Ltd. A Selective Plating method of Manufacturing Plated-Through-Hole Printed Circuits with Solder Mask on Bare Copper Conductors.

- 110/MAS/79. M/s. Hegde & Golay Ltd. A Selective Plating method of Manufacturing Plated-Through-Hole Printed Circuits with Solder Mask on Bare Copper Conductors.

- 111/MAS/79. K. C. Bhatt. Long Life Bulbs.

19th June 1979

- 112/MAS/79. A.C.M. Mohideen. Brassiers with Externally Fitted Detachable Nipple Covers. [Divisional Date, October 12, 1977].

- 113/MAS/79. N.S.I. K. Raman. A Device for Halting on Bicycle.

20th June 1979

- 114/MAS/79. Bharat Electronics Ltd. Coplanar Electrode Structure for Flat Gaseous Plasma Display.

- 115/MAS/79. O. V. Thoppil. A Toilet Seat.

23rd June 1979

- 116/MAS/79. S.M.A. Maruthia. Tissue Sheer Proof Shock Absorbing Nuhathadi with Load Distributor for the Double Bullock Cart or Ploughs etc. existing.

- 117/MAS/79. M/s. Pfimex International. Improvements in Pharmaceutical Formulation namely IVICLIN (Pfimex Brand of Doxycycline) for oral administration.

#### ALTERATION OF DATE

146620. 384/Cal/78. Ante-dated 7th February, 1977.

146621. 385/Cal/78. Ante-dated 7th February, 1977.

146629. 1400/Cal/77. Ante-dated 1st October, 1975.

146631. 575/Cal/78. Ante-dated 20th April, 1976.

#### COMPLETION SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on or from 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

The classifications given below in respect of each specifications are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Shankar Ray Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra is sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 14D<sub>1</sub>

146596.

Int. Cl.-H01m 17/00.

## ELECTROCHEMICAL CELL WITH CLOVOBORATE SALT AS ELECTROLYTE

*Applicant*: P. R. MALLORY & CO. INC., 3029, EAST WASHINGTON STREET, INDIANOPOLIS, INDIANA, UNITED STATES OF AMERICA.*Inventor*: CARL ROGER SCHKAJKER.

Application No. 334/Bom/1976 filed September 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

13 Claims.

An electrochemical cell comprising a metal anode and a cathode and an electrolyte salt of a metal cation and clovoborate anion having formula (B X)—<sub>k</sub> wherein m, n and k<sup>m</sup><sup>n</sup> are integers with m ranging from 6-20, n ranging from 6-18 and k ranging from 1-4, B is boron and X is selected from the group consisting of H, F, Cl, Br, I, OH and combinations thereof.

CLASS 104E.

146611.

Int. Cl.-B29h 9/04.

## APPARATUS FOR MAKING REINFORCED ELASTOMERIC FABRIC.

*Applicant*: THE STEELASTIC COMPANY, AT 1557 INDUSTRIAL PARKWAY, AKRON, OHIO 44310, UNITED STATES OF AMERICA.*Inventors*: ROBERT CHARLES BAUGHNER, ROBERT HENRY BOND, WALTER WILLIAM IMMEL, SR. AND ROBERT FREDERICK KIMMER.

Application No. 186/Cal/1977 filed March 17, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Office, Calcutta.

16 Claims.

Apparatus for making reinforced fabric from a ribbon of uncured elastomeric material in which a reinforcement has been encapsulated comprising: a transfer mechanism for the movement of the reinforced elastomeric ribbon from said lead-in mechanism to said assembly mechanism, a guillotine mechanism mounted on said frame between said lead-in and assembly mechanisms, operable to sever measured lengths of the reinforced elastomeric ribbon; means for mounting said guillotine mechanism to tilt with respect to an axis extending perpendicularly from said assembly mechanism; and, means for tilting said guillotine mechanism.

CLASS 55F.

146612.

Int. Cl.-C12k 9/00.

## IMPROVEMENT IN A METHOD FOR THE CULTIVATION ON BASIDIOMYCETES BELONGING TO THE GENUS CURIOLUS OF POLYPORACAE.

*Applicant*: KURIHA KAGAKU KOGYO KABUSHIKI KAISHA, OI NO. 8, HORIDOMESHO 1-CHOME, NIHONBASHI, CHOU-KU, TOKYO, JAPAN.*Inventors*: CHIKAO YOSHIKUMI, TAKAO FURUSHO, KENICHI MATSUNAGA AND NORIYUKI TOYODA.

Application No. 1345/Cal/77 filed August 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Office, Calcutta.

4 Claims. No drawings.

Improvement in a method for the cultivation of a Basidio mycete belonging to the genus Coriolus of Polyporaceae characterized in that said Basidiomycete is cultivated in a glucose-yeast extract medium containing 7.5 to 15% by weight of glucose, with the ratio of glucose to yeast extract being 3 to 15 : 1.

CLASS 39P.

146613.

Int. Cl.-C04b 11/00.

## A METHOD OF PREPARING A HARDENED CALCIUM SULPHATE HEMIHYDRATE PLASTER.

*Applicant*: IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILL-BANK, LONDON, SWIP 4QG.*Inventor*: HENRY KINNY KENNEDY-SKIPTON.

Application No. 168/Del/77 filed July 21, 1977.

Convention date September 15, 1976/(38190/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

21 Claims. No drawings

A method of preparing a hardened calcium sulphate hemihydrate plaster comprising mixing calcium sulphate hemihydrate, water and a set-inhibiting agent (as defined herein) to form a slurry and mixing with said slurry a promoter (as defined herein) reactable with said set-inhibiting agent, whereby the set-preventing effect of the inhibiting agent is neutralized and the setting of the composition is induced.

CLASS 32F<sub>2</sub>b.

146614.

Int. Cl.-C07d 41/06.

## RECOVERY OF CAPROLACTAM FROM WASH WATER RESIDUE (OLIGOMERS) OF NYLON 6.

*Applicant*: SIR PADAMPAT RESEARCH CENTRE, (A DIVISION OF J. K. SYNTHETICS LIMITED) KOTA-3 (RAJASTHAN) INDIA.*Inventors*: SITA RAM AGRAWAL, PRABHU NARAIN MATHUR AND RAGHUBIR SHARAN AGRAWAL.

Application No. 500/Del/77 filed December 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims. No drawings.

A process for the recovery of caprolactam in a substantially pure form from distillation residues of wash water (oligomers of "nylon-6") from a "nylon-6" polymerization plant, containing oligomers, traces of caprolactam and 3-4% caustic soda, comprising of the following steps :

(a) The residues are first cracked with 4-8% 0-phosphoric acid (on the weight of oligomers) by heating at a temperature of from 240-280°C; and the cracked product is steam-distilled;

(b) the distillate comprising substantially of a dilute aqueous solution of caprolactam is treated with activated carbon, concentrated by evaporation of a part of the water and then treated with requisite amount of potassium permanganate,

(c) the treated liquor is then subjected to distillation under vacuum to recover crude caprolactam as the main product;

(d) the crude caprolactam, thus recovered is redissolved in demineralised water and the aqueous solution is passed through beds of ion-exchange resins of both cation-exchange and anion exchange type;

(e) The solution, thus purified, is acidified with a mineral acid and then again treated with potassium permanganate solution;

(f) the liquor, after the above treatment, is made alkaline by treating with caustic soda and is again distilled under vacuum to obtain purified caprolactam.

CLASS 70C, &amp; 154A.

146615.

Int. Cl.-C23b 5/08, B41n 1/04.

## AN ELECTROCHEMICAL PROCESS FOR PREPARATION OF LITHOGRAPHIC PRINTING TRIMLTALIC PLATES, AND THE PLATES SO PREPARED.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventor* : BALKUNJEE ANANTHA SHENOI.

Application No. 1442/Cal/76 filed August 9, 1976.

Complete Specification left August 18, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims. No drawings.

An electrochemical process for the preparation of lithographic tri-metallic printing plates which comprise mechanical polishing of mild steel sheet followed by degreasing, electrolytic cleaning and dipping, copper plating and final chromium plating characterised in that an initial sub-layer of nickel is plated on the mild steel prior to copper plating.

CLASS 39L.

146616.

Int.Cl.-C01f 5/02.

METHOD OF RECOVERING MAGNESIA FROM MAGNESIUM CARBONATE CONTAINING RAW MATERIALS.

*Applicant* : CRUCIBLE SOCIETE ANONYME, 14 RUE D'ADMIRALITÉ, LUXEMBOURG, GRAND DUCHY OF LUXEMBOURG.

*Inventors*, ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED, PETER JURGEN BRANDT AND JOHN SFI BY.

Application No. 858/Cal/77 filed June 9, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A method of recovering magnesia from magnesium carbonate containing raw material including the steps of forming a slurry such as herein described of uncalcined raw material, heating the slurry to a temperature between 40 and 90°C, treating the hot slurry with stoichiometric equivalent of sulphur dioxide in a period of between 60 to 200 minutes to form soluble magnesium bisulphite, separating undissolved impurities from the solution of magnesium bisulphite, precipitating by known methods magnesium sulphite from the solution, separating the precipitate from the mother liquor and recovering by known methods magnesia from the separated precipitate.

CLASS 32F,b

146617.

Int. Cl.-C07d 51/30

A PROCESS FOR THE PREPARATION OF 5-M-TOLYLOXYURACIL, ANTI-ULCER AGENT.

*Applicant* : PHIZER INC., OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

*Inventor* : CHRISTOPHER ANDREW IIPINSKI.

Application No. 981/Cal/77 filed June 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A process for the preparation of 5-m-tolyloxyuracil comprising treating 5-(m-tolyloxy)-2-thiouracil with an alpha halo acetic acid and hydrolyzing the product in an aqueous mineral acid.

CLASS 32F & 39G

146618

Int. Cl.-C08f 1/72, 3/02.

PROCESS FOR THE POLYMERIZATION OF OLEFINS

*Applicant* : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDTIAAN 30 THE HAGUE THE NETHERLANDS.

*Inventor* : ANDRAS GUUS THEODORUS GEORG KORTEBECK, ADRIANUS ANTHONIUS VAN DER NAT

WILHELMINA JOHANNA MARIA VAN DER LINDE FLEMERS AND WILLEM SJARDIJN.

Application No. 1050/Cal/77 filed July 11, 1977.

Convention date July 12, 1976/(28897/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims. No drawings.

A process for the polymerization of olefins with a violet TiCl<sub>3</sub> catalyst that has been obtained by reducing TiCl<sub>4</sub> with an organo aluminium compound, characterized in that

(a) the TiCl<sub>3</sub> is premixed with any electron donor compound in an inert organic solvent, the molar ratio of electron donor compound : TiCl<sub>3</sub> being within the range from 0.3 : 1 to 2 : 1; the organo-aluminium compound is premixed with any electron donor compound in an inert organic solvent, the molar ratio of electron donor compound organo-aluminium compound being at least 0.25 : 1;

(c) the reduction is carried out over a period of less than one hour at a temperature within the range 60° to 110°C; and

(d) the final concentration of violet TiCl<sub>3</sub> in the reaction mixture is at least 0.2 mol./litre.

CLASS 32F,c.

146619.

Int. Cl.-C07c 29/26.

PROCESS FOR THE PRODUCTION OF METHANOL.

*Applicant* : IMPERIAL CHEMICAL INDUSTRIES LTD., OF IMPERIAL CHEMICAL HOUSE, MILBANK, LONDON SW. 1, ENGLAND.

*Inventor* : ALWYN PINTO.

Application No. 454/Cal/77 filed December 13, 1977

Convention date December 22, 1977/(53505/76) U.K.  
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch

10 Claims.

A methanol production process comprising a synthesis gas generation section, a synthesis section and a distillation section and characterised in that in the distillation section at least one distillation column is heated by live steam generated at low pressure by heat exchange of column bottoms water as herein before defined with a fluid stream at a temperature in the range 120-300°C in the synthesis gas generation section or the synthesis section of the process.

CLASS 32F a & F,b.

146620

Int. Cl.-C07c 103/30, 55/06, 87/48.

PROCESS FOR THE PREPARATION OF OXANILIC ACID DERIVATIVES.

*Applicant* : AMERICAN HOME PRODUCTS CORPORATION, OF 685, THIRD AVENUE, NEW YORK 10017, NEW YORK, UNITED STATES OF AMERICA.

*Inventor* : DIETER HEINZ KLAUBERT, JOHN HAMILTON STILSTADT AND CHARLES JOHN GUINNESSO.

Application No. 384/Cal/78 filed April 10, 1978.

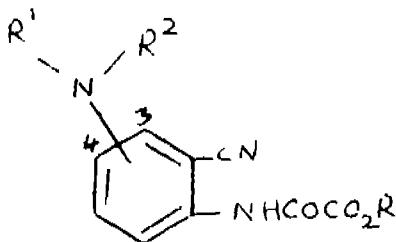
Convention date February 23, 1976/(351/76) IRELAND.

Division of Application No. 176/Cal/77 filed February 7, 1977.

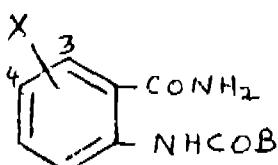
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 26 Claims.

A process for the preparation of a compound having the formula I.



in which the group  $-NR^1R^2$  appears in the designated 3- or 4-position; R is hydrogen, a pharmaceutically acceptable cation, alkyl of 1 to 6 carbon atoms, aralkyl of 7 to 8 carbon atoms or cycloalkyl of 3 to 6 carbon atoms; R<sup>1</sup> and R<sup>2</sup> are independently hydrogen; alkyl, alkenyl or alkynyl of 1 to 9 carbon atoms, inclusive; cycloalkyl of 5 or 6 carbon atoms; aralkyl of 7 to 9 carbon atoms; aryl of 6 to 10 carbon atoms; furfuryl or aromatic heterocycl; or R<sup>1</sup> and R<sup>2</sup>, together with the nitrogen to which they are attached, are aziridinyl, azetidinyl, pyrrolidinyl, piperidino, piperazinyl, 4-lower alkyl-piperazinyl, morpholino or thiomorpholino; or a pharmaceutically acceptable acid addition salt thereof, wherein a compound having the formula III.



wherein X is at the designated 3-or-4-position and represents  $-NR^1R^2$  (where R<sup>1</sup> and R<sup>2</sup> are as defined above) or a protected form of the group of formula-NHR<sup>2</sup> (as hereinbefore defined) (where R<sup>2</sup> is as defined above) and B represents  $-CO_2R$  (where R is as defined above) or a protected form of carboxyl (as hereinbefore defined) as precursor for free or salified carboxyl, is dehydrated by treatment with a dehydrating agent (as hereinbefore defined) to form a nitrile, and, where appropriate, the product is subjected to treatment in manner known per se to remove a protecting group from X and/or to convert a protected form of carboxyl as B into free or salified carboxyl and, if desired, a compound having formula I is converted into a pharmaceutically acceptable salt thereof by addition of an acid or a base or a salt form of a compound of formula I is converted into a compound of formula I by addition of an acid or a base.

CLASS 32F,a &amp; F,b.

146621.

Int. Cl.-C07c 103/30, 55/06, &amp; 87/48.

## PROCESS FOR THE PREPARATION OF OXANILIC ACID DERIVATIVES.

*Applicant*: AMERICAN HOME PRODUCTS CORPORATION, OF 1685, THIRD AVENUE, NEW YORK 10017, NEW YORK, UNITED STATES OF AMERICA.

*Inventors*: DIETER HEINZ KLAUBERT, JOHN HAMILTON SELISTEDT AND CHARLES JOHN GUINOSSO.

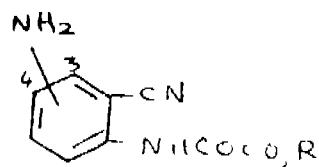
Application No. 385/Cal/78 filed April 10, 1978.

Convention date February 23, 1976/(351/76) IRELAND.  
Division of Application No. 176/Cal/77 filed February 7, 1977.

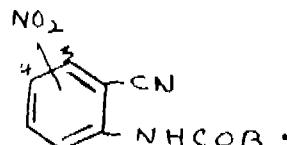
Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972 Patent Office, Calcutta).

## 6 Claims.

A process for the preparation of a compound having the formula I.



in which the group  $-NH_2$  appears in the designated 3- or 4-position; R is hydrogen, a pharmaceutically acceptable cation, alkyl of 1 to 6 carbon atoms, aralkyl of 7 to 8 carbon atoms or cycloalkyl of 3 to 6 carbon atoms, or a pharmaceutically acceptable acid addition salt thereof, wherein a compound having the formula II.



wherein the  $-NO_2$  substituent is at the designated 3- or 4-position and B represents  $-CO_2R$  (where R is as defined above) or a protected form of carboxyl as precursor for free or salified carboxyl, is reduced with a reducing agent to convert the nitro group into an  $-NH_2$  group and, where appropriate, a protected form of carboxyl as B is converted in known manner into a free or salified carboxyl group, and if desired, a compound having formula I is converted into a pharmaceutically acceptable salt thereof by addition of an acid or a base or a salt of a compound having formula I is converted into a compound having formula I by addition of an acid or a base.

CLASS 47B.

146621.

Int. Cl.-C10j.

## PROCESS AND APPARATUS FOR THE GASIFICATION OF A SOLID FUEL.

*Applicant*: RUHRCHEMIE AKTIENGESELLSCHAFT, OF 42, OBERHAUSEN HOLSTEN, POSTFACH 35, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: VOLKMAR SCHMIDT, BERNHARD LIEDER, HEINRICH SCHWEVE AND HANS DOHREN.

Application No. 259/Del/77 filed September 27, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972 Patent Office, Calcutta).

## 8 Claims.

A process for the gasification of a solid fuel, comprising: partially oxidizing the solid fuel in a reactor and in the presence of free oxygen or an oxygen-containing compound, at a temperature above the ash melting point and at a pressure in the range of from 10 to 200 bar, synthesis gas and liquid combustion residues carried in the synthesis gas as droplets being formed; passing the synthesis gas carrying the liquid combustion residues through a jet into a radiation chamber directly below the reactor, the flow rate of the synthesis gas through the jet being in the range of from 1 to 30 m/sec., the radiation chamber being cylindrical or conical, widening downwardly by an angle of up to 15°, the jet being centrally disposed relative to the axis of the radiation chamber, the radiation chamber having a finned wall construction (as hereinbefore defined), the ratio of the height of the finned wall to the diameter being less than or equal to 6 : 1; cooling the synthesis gas and the liquid combustion residues in the radiation chamber to cause the liquid combustion residues to solidify to form agglomerates; passing the synthesis gas and the agglomerates over a bath of water to cause the agglomerates to pass into the water, the agglomerates becoming granulated in the water; removing the granulated agglomerates from the water by means of a lock; passing the synthesis gas from the radiation chamber into a lock; passing the synthesis gas from the radiation chamber into a convection

chamber; and preheating for steam generation in the cooling tubes of the finned wall construction by means of heat from the combustion residues.

CLASS 132B<sub>a</sub>.

146623.

Int. Cl.-B28c 5/18.

METHODS AND APPARATUS FOR THE TREATMENT OF PRODUCTS OR MATERIALS BY MIXING, DRYING, GRINDING, DE-BURRING, POLISHING OR FINISHING.

*Applicant*: WILLIAM BOULTON LIMITED, OF PROVIDENCE ENGINEERING WORKS, NAVIGATION ROAD, BURSLEM, STOKE-ON-TRENT, STAFFORDSHIRE, ENGLAND.

*Inventors*: ANTHONY FREDERICK DAVENPORT AND HARRY BENTLEY BRAILSFORD.

Application No. 559/Cal/77 filed April 12, 1977.

Convention date April 13, 1976/(14957/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims.

Apparatus for use in the treatment of products or materials by mixing, drying, grinding, de-burring, polishing or finishing same, the apparatus comprising a chamber defining a spiral treatment path the turns of which are of gradually increasing radius and are disposed side by side in a generally horizontal plane, an inlet opening disposed centrally of the spiral path, a peripheral discharge opening and means for subjecting the chamber to a vibratory movement comprising a rotary oscillation about a generally vertical axis with an up and down component superimposed thereon to constrain a mixture of at least two products or materials to travel along and around the spiral path from the central region thereof to the discharge opening.

CLASS 62D.

146624.

Int. Cl.-A41d 1/00.

## IMPROVEMENTS IN AND MODIFICATION OF CREASE RECOVERY PROCESS.

*Applicant & Inventor*: JAMNADAS KHIMCHAND SHAH, JAYVADAN JASHVANTLAL SHROFF AND RAMESH BANSILAL CHOKSHI, OF 8, KAMAC STREET, CALCUTTA-700016, (WEST BENGAL), INDIA.

Application No. 691/Cal/77 filed May 10, 1977.

Complete specification left December 24, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims. No drawings.

Process for imparting crease recovery properties to textile materials, cellulosics or blends of cellulosics with synthetics, comprising treating the textile with a composition containing cross linking agent/resin, for example dimethylol ethylene urea (DMEU), dimethylol dihydroxy ethylene urea (DMHU-EU), dimethylol propylene urea (DMPU), dimethylol carbamate (DMC) and dimethylol triazone (DMT) or thermosetting resins from the group consisting of urea formaldehyde and melamine formaldehyde resins, a catalyst, being a Lewis acid that is capable of generating cation and not acid under condition of flash curing (at 80 to 210°C for 20 seconds to 4 minutes) said cation possessing vacant orbitals which are in a position to constructively overlap with the lone pair of electrons on the oxygen atom of the N-hydroxymethyl group of cross linking agent/resin and having wide spectrum of oxidation states being e.g. ammonium salts of organic and inorganic acids such as ammonium acetate, ammonium nitrate, ammonium oxalate, ammonium borate, ammonium chloride, ammonium phosphate, ammonium tartarate, zinc acetate, zinc chloride, zinc nitrate, stannous chloride, aluminium chloride, boronfluoride, magnesium chloride and sodium chloride, a non-ionic wetting agent known *per se* and flash curing the so treated textile at 80 to known *per se*, and flash curing the so treated textile at 80 to 210°C for 20 seconds to 4 minutes.

CLASS 32F, &amp; F2a &amp; F2a.

146625.

Int. Cl.-C07c 13/04, 15/10.

## A PROCESS FOR THE PREPARATION OF AN INSECTICIDAL COMPOUND.

*Applicant*: FMC CORPORATION, OF 2000 MARKET STREET, PHILADELPHIA, PENNSYLVANIA 19103, UNITED STATES OF AMERICA.

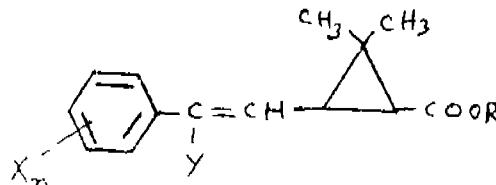
*Inventor*: JOHN FRANCIS ENGEL.

Application No. 1248/Cal/77 filed August 11, 1977.

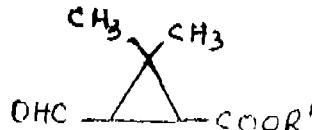
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims.

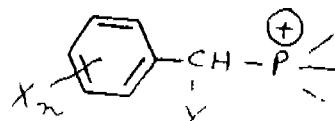
A process for the preparation of an insecticidal compound characterized by the formula I.



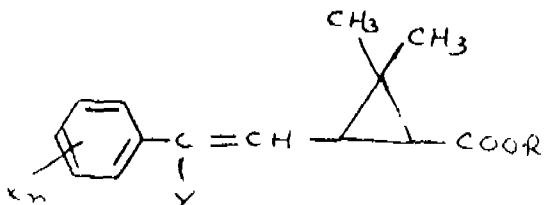
wherein X is halogen, cyano, nitro, aryl, aralkyl, aryloxy, arylothio, alkyl of C<sub>1</sub>-C<sub>4</sub>, alkoxy of C<sub>1</sub>-C<sub>4</sub>, alkylthio C<sub>1</sub>-C<sub>4</sub>, haloalkyl of C<sub>1</sub>-C<sub>4</sub>, dialkylamino in which alkyls are C<sub>1</sub>-C<sub>4</sub>, or methylenedioxy; Y is hydrogen, halogen, cyano, alkyl of C<sub>1</sub>-C<sub>4</sub>, haloalkyl of C<sub>1</sub>-C<sub>4</sub>, carbomethoxy, or carbethoxy; n is 0, 1, 2 or 3; and R is an alcohol residue which, when combined with the acid moiety, provides an insecticidally active cyclopropanecarboxylate, characterized by reacting a compound of the formula II.



wherein R' is alkyl of C<sub>1</sub>-C<sub>4</sub> with a phosphonium salt of partial formula III.



wherein X, Y, and n are as defined above in the presence of a strong base selected from an alkyl lithium, aryl-lithium, alkali metal hydride, alkali metal amide, and an alkali metal alcoholate, in an essentially anhydrous inert solvent under an inert atmosphere to give an ester of the formula Ia.



wherein X, Y, n, and R' are as defined above hydroxylizing the ester by treatment with acid or base and resterifying by conversion to the acid halide and treatment with an alcohol of the formula R-OH wherein R is as defined above.

CLASS 131A<sub>1</sub> & B<sub>4</sub>.

146626.

Int. Cl.-E21b 9/00.

PROCESS FOR DECONTAMINATION OR DRILLING CUTTINGS AND THE DISPOSAL OF WASTE MUD PRODUCTS FROM OIL BASED MUD DRILLING OPERATIONS AND AN APPARATUS FOR CARRYING OUT THE SAME.

*Applicant*: WEST'S PYRO LIMITED, OF DALE HOUSE, TIVOT, DATE, STOCKPORT, CHESHIRE, SK1 1SA, ENGLAND.

*Inventor*: IVAN ERNEST KIMBERLEY.

Application No. 1253/Cal/77 filed August 12, 1977.

Convention date August 12, 1976/(33538/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims.

A process for de-contaminating drilling cuttings and/or drilling mud, contaminated with a hydrocarbon oil, comprising the steps of feeding the drillings and/or mud into a fluidised bed combustor and heating in a known manner the cuttings and/or mud so as to burn off the contaminant whereby the cuttings may be disposed off without environmental spoilage and the mud recycled.

CLASS 32F<sub>1</sub>,a.

146627.

Int. Cl.-C07b 29/00, C07c 69/00.

PROCESS FOR PREPARING AN AROMATIC CARBONATE.

*Applicant*: GENERAL ELECTRIC COMPANY, OF 1, RIVER ROAD, SCHENECTADY, STATE OF NEW YORK 12305, UNITED STATES OF AMERICA.

*Inventor*: JOHN EDWARD HALIGREN.

Application No. 1313/Cal/77 filed August 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 20 Claims.

Process for preparing an aromatic carbonate which comprises contacting a phenol such as herein described with carbon monoxide, a base such as herein described and a Group VIIIIB element selected from ruthenium, rhodium, palladium, osmium, iridium or platinum having an oxidation state of plus one and the carbonates formed are recovered by methods known in the art.

CLASS 35E.

146628

Int. Cl.-C04b 35/00.

A METHOD FOR PREPARING A CHARGE FOR THE MANUFACTURE OF REFRACTORY ARTICLES.

*Applicant*: VSESOJUZNY NAUCHNO-ISSLEDOVATEL'SKY INSTITUT PO ZASCHITE METALLOV OT KORROZII, OF ULITSA SCHRBAKOVSKAYA, 3, MOSCOW, USSR.

*Inventors*: ALEXANDR NIKOLAEVICH ANTONOV, ALEXANDR IVANOVICH ATMANSKY, NINA FEDOROVNA VOROBIEVA, SERGEI DMITRIEVICH FEDOROV, JURY PETROVICH ARKHIPOV AND LJUDMILA KUZMINICHNA ANTIMIROVA.

Application No. 1391/Cal/77 filed September 9, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims. No drawings

A method for preparing a charge for the manufacture of refractory articles consisting of 60 to 65 parts by weight of anthracite, 5 to 10 parts by weight of graphite, 20 to 25 parts by weight of pitch, 2 to 5 parts by weight of a modified polymethylene phenol, 2 to 4 parts by weight of a polyorganosiloxane, 0.5 to 1.0 part by weight of hexamethylenetetramine is

characterised by grinding anthracite and graphite (either artificial or natural) to particles with a size from 0.5 to 0.01 mm making the content of the fraction with the size of from 0.09 to 0.10 mm within a range of from 80 to 85% by weight, having the said ingredients—anthracite 60 to 65 parts by weight and graphite 5 to 10 parts by weight into a mixer having 7-shaped vanes under agitation, the mixer being heated to a temperature of 130°C and added with 20 to 25 parts by weight of solid or molten pitch, the mixture then blended at a temperature of 125 to 140°C for 40 to 60 minutes to obtain a homogenous mass which is then discharged from the mixer, cooled to 20 to 25°C and crushed first in a roll crusher and then in a bead mill provided with water cooling to a powder with a particle size of from 0.5 to 0.01 mm and maintaining the fraction with the particle size of 0.09—0.10 mm at a content value from 80 to 85% by weight whereby into the bead mill there is added to a mass on the basis of the pitch binder, a mixture of powder like polymethylene phenol modified with polyvinyl-butyral (2 to 5 parts by weight), polyorganosiloxane (2 to 4 parts by weight) and hexamethylenetetramine (0.5 to 1 part by weight), the component, intermixed in a bead mill to obtain a homogenous mass, from which mass articles of predetermined dimension are compression moulded and subjected to a heat treatment at the temperature 1200°C by a conventional method.

CLASS 40F.

146629.

Int. Cl.-C22b 5/12.

#### METHOD OF REDUCTION OF METAL OXIDES.

*Applicant*: FIRERO ESPONJA S.A., OF AVENIDA LOS ANGELES AL ORIENTE, MONTERREY, N.L., REPUBLIC OF MEXICO.

*Inventor*: PATRICK WILLIAM MACKAY.

Application No. 1400/Cal/77 filed September 13, 1977.

Division of Application No. 1892/Cal/75 filed October 1, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims.

A method for the batchwise gaseous reduction of oxides of iron, copper, nickel or tin to the corresponding metals in a multiple unit reactor system of the type in which separate bodies of metal-bearing material are simultaneously treated in a plurality of interchangeable reactors including a cooling reactor and a series of reduction reactors, said system being of the type in which a preformed reducing gas composed largely of carbon monoxide and hydrogen from a source of said gas is passed successively through the bodies of metal-bearing material in the reduction reactors of said series, said reducing gas being heated to 700° to 1100°C before being fed to each reactor of said series and cooled and de-watered after leaving each reactor of said series characterized in that the reducing gas recycled from the last of the series of reactor to the primary reactor and a predetermined small amount of fluid hydrocarbon as herein described is mixed with the reducing gas fed to at least one of said reduction reactors prior to the point at which said reducing gas is heated to increase the productivity of said reduction system.

CLASS 144A.

146630.

Int. Cl.-B44d 1/46.

#### PROCESS AND PRODUCTION LINE FOR COATING OF SURFACES.

*Applicant*: HAJTOMUVEK ES FFSTOBERENDFZESEK GYARA, OF FEHFRVARI UT 98, BUDAPEST XI, HUNGARY.

*Inventors*: DR. JOZSEF DOMOKOS, LASZLO WINKLER AND VINCE KALMAN.

Application No. 1618/Cal/77 filed November 17, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims.

A process for coating surfaces wherin the surfaces to be coated are cleaned and/or degreased at a pretreatment station, thereafter coated with a liquid or solid paint or dye at a coating station and subsequently the coating on the surface is dried, baked and/or polymerised in the baking station, characterised in that act the baking station the workpiece to be coated is brought into at least partial contact with a liquid, which when heated to the baking temperature will react neither with the coating nor with the workpiece and will form a coating which is either dried, baked-in and/or polymerised.

CLASS 32E.

146631.

Int. Cl.-C08f 3/02, 15/00.

## PROCESS FOR PRODUCING OLEFIN POLYMERS.

*Applicant*: PHILLIPS PETROLEUM COMPANY, OF BARTLESVILLE, STATE OF OKLAHOME, UNITED STATES OF AMTRICA.

*Inventors*: DONALD DWIGHT NORWOOD AND JOHN PAUL HOGAN.

Application No. 575/Cal/78 filed May 27, 1978.

Division of Application No. 675/Cal/76 filed April 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A process for producing olefin polymers which comprises contacting at least one mono-olefin having 2-8 carbon atoms per molecule under conventional polymerization conditions with catalyst having been prepared by forming a hydrogel according to Patent No. 144959.

CLASS 32F,<sub>a</sub>b.

146632.

Int.Cl.-C07c 69/00.

## A PROCESS FOR PREPARATION OF TERTIARY ALKYL ESTERS FROM THE CORRESPONDING HALIDES.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW-DELHI-110001, INDIA.

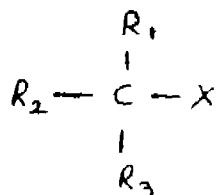
*Inventors*: S. ANANDARAMAN, K. N. GURUDUTT, C. P. NATARAJAN AND B. RAVINDRANATH.

Application No. 374/Del/77 filed November 3, 1977.

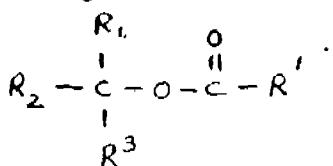
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A process for the preparation of tertiary alkyl esters of general formula II.



from corresponding halides, which comprises reacting a tertiary alkyl halide of general formula I.



with a carboxylic acid of formula R'. COOH and a zinc salt thereof (R'COO)<sub>2</sub>Zn; wherein R<sub>1</sub> and R<sub>2</sub> represent an alkyl, alkenyl group or part of a cyclic structure; R<sub>3</sub> is an alkyl 2-167GI/79

group R' is II or alkyl group, and X is halogen like chlorine or bromine radical.

CLASS 79

146633.

Int. Cl.-B42f 13/40.

## IMPROVEMENTS IN OR RELATING TO DEVICES FOR FILING PAPERS OR THE LIKE.

*Applicant & Inventor*: GHEWAR VIRCHAND JAIN, OF BLOCK NO. 2, GROUND FLOOR, SEJAL CO-OPERATIVE HOUSING SOCIETY, ARTHUR ROAD NAKA, BOMBAY, STATE OF MAHARASHTRA, INDIA.

Application No. 248/Bom/76 filed July 22, 1976.

Complete Specification left, December 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 5 Claims.

A device for filing papers or the like comprising an L-shaped fixed member, the longer arm of the said fixed member serving as a base plate, the said base plate having means such as holes or the like to enable it to be fitted to a file Pad, folder or the like, the shorter arm of the said fixed member lying vertically upwards at right angles to the said base plate, to the said base plate being rigidly affixed at least two punching spindles, the upper ends of the said spindles being provided with cutting edges characterised in that to the edge of the said shorter arm is swivellably hinged a box-frame, the lower panel of the said box frame is provided with the two holes corresponding in position and sizes to the said punching spindles, the internal hollow space of the said box-frame forming a chamber for automatic collection of paper cuttings produced during the punching operations, to the said box-frame is attached at an angle a pressure flap-cum-torsional spring-cum-paper guide consisting of a configuration of spring-wire made of steel, bionze or the like of one continuous length having two ends, each of the two ends being adapted to be rigidly held where the said spring-wire configuration is attached, adjacent to each of the said ends are formed two or more parallel turns lying in a common plane in which (plane) the said two ends of the spring-wire are lying, the said two turns and the said two ends of the spring-wire serving as a torsional spring, the rest of the said spring-wire configuration forming a plane frame serving as a stiff pressure-flap which lies in the same plane in which the turns of the torsional spring lie, the said pressure-flap having at least two gaps to allow the said spindles to pass through, the said spring-wire configuration having formed in it one or more loops which serve as paper-guides, the said loops lying below and at right angles to the plane of the said plane frame serving as a pressure flap, the said box-frame at its both ends being fitted with covers to serve as reinforcement to the holes in the box-frame.

CLASS 105A.

146634.

Int. Cl.-G04b 19/00.

## A PERMANENT GREGORIAN CALENDAR.

*Applicant & Inventor*: BHAILAL VITHALDAS ZALA, LINDI BAZAR, BIBODI FALI, JAMNAGAR, STATE OF GUJARAT, INDIA.

Application No. 299/Bom/76 filed August 31, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 2 Claims.

A permanent Gregorian calendar comprising a front panel with concentric circular configurations and markings as shown in Figure I of the accompanying drawings and a rotatable circular rear disc having concentric outer and inner annuli, the disc disposed behind and concentrically to the configurations on the front panel, each annulus on the disc being divided by continuous radial lines into twenty-eight equal sectorial compartments having correlated markings as shown in the Figure II of the accompanying drawings, the markings on the front panel and on the rear disc having respective meanings as defined in the specification, characterised in that said calendar has the last two digits of a number of years marked in the compartments of the outer annulus of the rear disc, four such alternate compartments being exhibited through four

equal equidistant windows in front of such compartments, said windows being located in the uppermost quarter of the front panel, each said window upon full rotation of the rear disc depicting hundred years of four consecutive centuries, to the digits other than the last two digits of the years determining one of the windows in the manner described in the specification for the purpose of reading the calendar, groups of months corresponding to years exhibited through said windows are marked in the seven consecutive compartments in the inner annulus being exhibited simultaneously through single window located in the lowermost quarter of the front panel correlating groups of months to a magic square of days of a week in terms of dates marked on the front panel.

## CLASS 104P.

146635.

Int. Cl.-B29h 5/28.

## A METHOD OF AND MEANS FOR MANUFACTURING BELTS INCLUDING V BELTS FOR TRANSMISSION PURPOSES.

*Applicant & Inventor* : RANA GHOSE, AT 17, CAMAC STREET, CALCUTTA-17, STATE OF WEST BENGAL, INDIA.

Application No. 1663/Cal/76 filed September 9, 1976.

Complete Specification left September 9, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

A method for the manufacture of transmission belts wherein during the process of manufacture in the step of curing or vulcanization of green belts, the uncured belts are maintained under tension and are adapted to travel over two grooved drums, and heat is applied through at least one of the said drums and also from above the said drum over the travelling belts whereby the entire section of the belt is subjected to heat and pressure thereby effecting vulcanization of the belt/belts.

## CLASS 131A.

146636.

Int. Cl.-E21b 43/10.

## A SUCTION DEVICE FOR OFF-SHORE WEIGHT STRUCTURES.

*Applicant* : SEA TANK CO S.A., OF 23 RUE DU PONT DES HALLES, CHEVILLY-LARUE, CIDEX D 901, 94536 RUNGIS CEDEX, FRANCE.

*Inventors* : CLAUDE ALBAN, MICHEL DAUBENFELD AND RICHARD VIVIER.

Application No. 2123/Cal/76 filed November 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

A suction device for maintaining a reduced pressure underneath an off-shore weight structure standing on permeable ground, the weight structure including a raft supporting a base which is surmounted by a column for projection above the surface of the water; wherein the suction device comprises a drainage network having at least one inlet communicating with the underside of the raft and at least one outlet situated on the column at a predetermined depth below the average sea level, the drainage network including pressure sensing means and a valve which, in operation is servo-controlled by the pressure sensing means to open and allow communication between the inlet and the outlet of the drainage network whenever a wave trough passes the outlet and is sufficiently deep for the difference between a reference pressure and the actual sea pressure to exceed a threshold value, whereby the pressure underneath the structure is maintained at a pressure below the average hydrostatic pressure during seas whose waves exceed a predetermined amplitude.

## CLASS 101F &amp; 102D.

146637.

Int. Cl. F16k 31/143.

## ACTUATORS FOR OPERATING CONTROL DEVICES.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

*Inventor* : HEINRICH HAGENDORN.

Application No. 2232/Cal/76 filed December 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 24 Claims.

An actuator, for operating a control device in a turbine assembly comprising a housing having a piston arranged therein so as to be slidably axially between a forward position and a backward position, and further comprising a coupling member, for connection to such a device, having a portion which extends within the housing and being slidably axially relative to the housing, when the piston is in its backward position, between an advanced position and a withdrawn position, wherein there are provided first resilient means arranged within the housing for applying between the piston and the said portion of the coupling member a force urging them apart towards the said backward and advanced positions respectively, and second resilient means arranged within the housing so as to apply between a part thereof and the said portion of the coupling member a force urging the coupling member towards the said withdrawn position, and further including means for applying pressure to the piston by way of operating fluid within the housing so that the piston is held in its forward position, against the combined forces of the said first and second resilient means, whereby the said coupling member is held firmly in its advanced position, and the actuator being such that, when the piston is so held in its forward position, release of such pressure will result initially in expansion of the first resilient means, such as to move the piston through part of the distance towards its backward position, whereafter the said second resilient means will expand so as to move the said coupling member rapidly to its withdrawn position.

## CLASS 24D.

146638.

Int. Cl.-B60t 15/00.

## VEHICLE BRAKING CONTROL APPARATUS.

*Applicant* : WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, OF 3 JOHN STREET, LONDON WC-N1 2ES, ENGLAND.

*Inventor* : DAVID JOHN WICKHAM.

Application No. 38/Cal/77 filed January 12, 1977.

Convention date February 7, 1976/(04866/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

Valve apparatus for improved quick service operation in a vehicle braking system, including a reference pressure signal input port and a brake pipe pressure signal input port, pressure difference sensing means operable following a sensed attainment of a pressure difference between the pressure signals at said signal input ports to open a valve to apply air from the brake pipe to operate a pulsating means for discharging repetitive pulses of air from the brake pipe.

## CLASS 146C.

146639.

Int. Cl.-G01n 9/00.

## A SMOKE METER.

*Applicant & Inventor* : AMIT KUMAR ROY, 85/1, SATYEN ROY BRANCH ROAD, BEHALA, CALCUTTA-34, STATE OF WEST BENGAL, INDIA.

Application No. 69/Cal/77 filed January 18, 1977.

Complete specification left January 18, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A smoke meter adapted to measure the density of smoke comprising an elongated glass tube on which two shadable non-conducting metal tubes are disposed, one of said metal tube being the inlet tube and the other being the outlet tube, said inlet metal tube is made into a taper such as to form a throttle and is adapted to be fitted to the source of the gaseous exhaust, the gaseous exhaust to be sampled is adapted to flow through the said glass tube and the metal tubes from the inlet end to the outlet end, at least one collimated source of light and a photoelectric cell being provided one at either side of the said glass tube and such that when the gaseous exhaust is allowed to pass through said tubes the said gaseous exhaust forms into a jet

CLASS 145C & 155A & C 146640

Int Cl.-D21d 3/00 42Jh 3/00

**PROCESS FOR THE PRODUCTION OF ABSORBENT PAPER HAVING A GOOD RESISTANCE TO ALKALI.**

*Applicant : C H DFXTFR LIMITFD, OF CHIRNSIDE, DUNS, BERWICKSHIRE, SCOTLAND, TD11 3 JU.*

*Inventors : NEWLYN JONFS, ALISTAIR CHARLES STEWART AND JAMES F. WARD.*

Application No 888/Cal/77 filed June 14, 1977.

Convention date June 25, 1976/(26530/76) U.K.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta

12 Claims. No drawings.

A process for the production of absorbent paper having a good resistance to alkali, which process comprises forming a paper web from an aqueous slurry of fibres, characterised in that during or after the formation of the paper web the said fibres are treated with treating agents, each of which is applied to the fibres in the form of an aqueous solution, the treating agents being (a) a water-soluble, cationic, thermosetting, epihalohydrin containing resin, which is applied in an amount to give 0.05% to 4.0% (b) a non-bisocose, film-forming material, which is applied in an amount to give 0.5% to 8% and (c) a polyalkylene imine, which is applied in an amount to give 0.05% to 2.0% all of the aforesaid percentages being by weight of the fibrous web, on a dry weight basis.

**PATENTS SEALED**

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**REGISTRATION OF DESIGNS**

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 147716. Minni Trading Corporation, 5B, Kan-chun Villa, Goraswadi, Malad, Bombay-400064, Maharashtra, Indian Partnership Firm. "Cap". November 13, 1978

Class 1 No 147751. Jaiprakash Anant Sathe, An Indian Citizen, 1187/25, Ghole Road, Pune-411004, Maharashtra, India. "Ladder-cum-cutwall". November 18, 1978.

Class 1 No 147759 Bonafide Industrial Works, a registered partnership firm, No 2 Singh Industrial Estate, Ram Mandir Road, Goregaon (West), Bombay-400062, State of Maharashtra, India. "Handle". November 23, 1978.

Class 1 No. 147773. Santosh Kumar Manna, Post & Village-Jaypur Bill, Dist. Howrah, West Bengal, India, Indian. "Lamp". November 28, 1978.

Class 1. No. 147777. Kamalnain Kedarnath Gupta, Indian National, of 20, Jeenabhai Mulji Rathod Marg & Hussain Patel Marg, Mazgaon, Bombay-400010, Maharashtra, India. "Tray". November 28, 1978.

Class 1. No. 147778. Kamalnain Kedarnath Gupta, Indian National, of 20, Jeenabhai Mulji Rathod Marg and Hussain Patel Marg, Mazgaon, Bombay-400010, Maharashtra, India. "Dish". November 28, 1978.

- Class 1. No. 147788. Routh Trade Linkers, of 86/1A, Akhil Mistry Lane, Calcutta-9, West Bengal, an Indian proprietary concern. "Paper weight". December 4, 1978.
- Class 1. No. 147794. Nelson Type Foundry Private Limited, 34, Sami Pillai Street, Choolai, Madras-600 007, Tamil Nadu-Indian Private Limited Company. "Telugu type founts". December 4, 1978.
- Class 1. No. 147807. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 071, West Bengal, India. "Flashlight". December 12, 1978.
- Class 1. No. 147837. Hind Machinery Works, an Indian Registered Partnership Firm, of K. B. Lal Road, Nathnagar, Bhagalpur-812006, State of Bihar, India. "A spinning machine". December 15, 1978.
- Class 1. No. 147838. Enem Electrical & Mechanical Engineers, (A Partnership firm duly registered under the Act), of 13, Shirin Chambers, 3rd Floor, 348/350, Samuel Street, Bombay-400 003, State of Maharashtra, India. "Stretching clamp". December 16, 1978.
- Class 1. No. 147844. M/s. Sitaram Cam & Tools Industries, Kanaksaly Road, Chinsurah-712101, Hooghly, West Bengal, an Indian Proprietorship Concern. "Rotary disc filter". December 19, 1978.
- Class 1. No. 147889. Canara Industries, (a partnership firm duly registered under the Partnership Act), of Bata Compound, Khopat, Pokhian Road, No. 1, Thane 400 601, State of Maharashtra, India. "Tubular lamp holder". December 27, 1978.
- Class 1. No. 147898. Tata Engineering and Locomotive Company Limited, of Bombay House, 24 Homi Mody Street, Fort, Bombay-400023, Maharashtra, India, an Indian Company. "A power supply enclosure". December 28, 1978.
- Class 1. No. 147899. Racold Appliances Pvt. Ltd., an Indian Company of "Vandhra", 11th Floor, 11 Tolstoy Marg, New Delhi-110001, India. "Gas cooking appliances". December 28, 1978.
- Class 3. No. 147574. Monarch Enterprises, 51/3, New Market, New Rohtak Road, New Delhi-110005, an Indian Partnership concern. "Telephone". September 22, 1978.
- Class 3. No. 147575. Rehman Industries (India) 2848-Bulbuli Khana, Bazar Sita Ram, Delhi, an Indian sole proprietor Concern. "Sharpener". September 22, 1978.
- Class 3. No. 147576. Dharamshi Purshottam Asher an Indian of C/o Chetan Trading Company, 67, Pathakwadi, Lohar Chawl, Bombay-400 002, Maharashtra, "Rack". September 22, 1978.
- Class 3. No. 147577. Globe Super Parts, 14/1, Mathura Road, P.O. Amarnagar, Faridabad-121003, Haryana India, An Indian Partnership Concern. "Air pump". September 22, 1978.
- Class 3. No. 147578. Plastic & Metal Devices, (India) H-172, Ashok Vihar, Delhi-110052 (An Indian Partnership Firm). "Pencil sharpner". September 22, 1978.
- Class 3. No. 147602. National Plastic Industries, 5, Rewa Chambers, New Marine Lines, Bombay-400 020, Maharashtra, India, an Indian Partnership Firm. "Baby bath tub". September 26, 1978.
- Class 3. No. 147606. Allied Instruments Private Limited, a Company incorporated under the Indian Companies Act, 1956; of 30-CD, Government Industrial Estate, Kandivli, Bombay-400 057, Maharashtra, India. "Letter weighing scale". October 3, 1978.
- Class 3. No. 147648. Baldevdas Meherchand Gupta, an Indian Citizen, 'Sarnath' Bldg. Sophia College Road, Bhulabhai Desai Road, Bombay-400 026, Maharashtra, India. "Bath room mat". October 16, 1978.
- Class 3. No. 147651. Allied Instruments Pvt. Ltd., a Company incorporated under the Indian Companies Act, 1956, of 30CD, Government Industrial Estate, Kandivli, Bombay-400 057, Maharashtra, India. "Foot rule with date". October 16, 1978.
- Class 3. No. 147656. Chander Kumar Jain, an Indian Citizen, 66, Bajaj Bhawan, Nariman Point, Bombay-400 021, Maharashtra, India. "A clamp". October 17, 1978.
- Class 3. No. 147658. Plastimax India, Indian Partnership Concern, 1, Green Row, P.O. Garia, Dist-24 Parganas, West Bengal, India. "Spray gun". October 18, 1978.
- Class 3. Nos. 147659 & 147660. Shri Mool Chand Kothevari, Indian Nationality, trading as M/s. Kothevari Chemicals of 263, Bipin Behari Ganguly Street, Calcutta-700012, West Bengal, India. "Cosmetic container". October 18, 1978.
- Class 3. No. 147667. Arvind Plastic Industries, an Indian Regd. Partnership firm of No. 5, Gango Industrial Estate, 2nd Floor, Room No. 17, Ramchandra Lane, Malad (West), Bombay-400064, Maharashtra. "Picnic set". October 20, 1978.
- Class 3. No. 147668. Allied Instruments Pvt. Ltd., a Company incorporated under the Indian Companies Act, 1956, of 30CD, Government Industrial Estate, Kandivli, Bombay-400057, Maharashtra, India. "Clipboard". October 20, 1978.
- Class 3. No. 147669. Industrial Products Co., an Indian Regd. partnership firm of Dada Manzil Mohamed Ali Road, Bombay-400003, Maharashtra, "Indicator". October 20, 1978.
- Class 3. No. 147688. Varudu Seshamani, temporarily of 59, Shakuntala, Nehru Place, New Delhi-110024, India, an Indian National. "Electrical plug". October 25, 1978.
- Class 3. Nos. 147689 & 147690. M/s. D. L. K. (India) Sales Corporation, 3, Canal Road, Calcutta-700022, (West Bengal) an Indian partnership firm. "Spray pump". October 26, 1978.
- Class 3. No. 147763. Dolly Toys Industries, a registered partnership firm of D-34, Rajouri Garden, New Delhi-110027, India. "Toys". November 24, 1978.
- Class 3. No. 147768. New Art Industries, Post Box No. 7614, Ram Baug Swami Vivekanand Road, Malad, Bombay-400064, Maharashtra, Indian Partnership firm. "Idol". November 28, 1978.
- Class 4. No. 146475. Indian Beverage Co. Ltd., an Indian Company incorporated in India under the Companies Act, 1956, at 52, Janpath New Delhi-110001, India. "Bottles". January 2, 1978.
- Class 4. No. 147457. Steven John Hogue, a Citizen of the United States of America, of 174, Kingsbury Avenue, Corning, New York 14830, United States of America. "A food jar cleanout and food spreading implement". August 16, 1978.
- Class 4 Nos. 147530 & 147531. The Mahalakshmi Glass Works Private Limited (a private limited company incorporated under the Indian Companies Act). Dr. E. Moses Road, Jacob Circle, Bombay-400011, Maharashtra, India. "Bottle". September 8, 1978.
- Class 4. No. 147558. Trescho Incorporation, of 288/90, Nagdevi Street, 1st Floor, Room No. 12-A, Bombay-400003, State of Maharashtra, India, a partnership firm, registered under the Indian Partnership Act. "Bottle". September 16, 1978.

Class 4. No. 147586. Kaustubh Enterprises, 4, Tulsi, 1st Floor, 93, Old Prabhadevi Road, Post Box 1696, Bombay-400001, State of Maharashtra, India, a Proprietary concern. "A ceramic fuel filter". September 25, 1978.

Class 4. No. 147670. Medident India (P) Ltd, an Indian Company, of Devi Theatre Buildings, 11nd Floor Mount Road, Madras-600002, Tamil Nadu, India. "A cover for dental compressor". October 21, 1978.

Class 4. No. 147728. Irwin's Boat Yard, a registered partnership firm of 23-31-5, Thomson Street, Visakhapatnam-530001, Andhra Pradesh, India. "A surf landing boat". November 16, 1978.

Class 4. No. 147754. The Mahalakshmi Glass Works Private Limited, (a private limited company incorporated under the Indian Companies Act), Dr. E. Moses Road, Jacob Circle, Bombay-400011, Maharashtra State. "Bottle". November 20, 1978.

Class 4. No. 147755. Aparna International, 6, Old Post Office Street, Calcutta (West Bengal), an Indian Partnership Firm. "Feeding bottle". November 20, 1978.

Class 4. No. 147703. Lulla Wine Distributors an Indian sole proprietors firm, of 9th 1st Floor, Sona Co-operative Society, Opp : New Talkies Hill Road, Bombay-400050; Maharashtra. "Bottle". November 7, 1978.

Class 4. No. 147704. M/s. Shere Punjab Trading Co., S. P. Mukerjee Marg, Delhi, An Indian Company "Bottles". November 8, 1978.

Class 5. No. 147672. Trescho Incorporation, of 288/90, Nagdevi Street, 1st Floor, Room No. 12-A, Bombay-400003, State of Maharashtra, India a partnership firm, registered under the Indian Partnership Act. "Cartons". October 21, 1978.

Class 5. No. 147680. Trescho Incorporation of 288/90, Nagdevi Street, 1st Floor, Room No. 12-A, Bombay-400003, State of Maharashtra, India, a partnership firm, registered under the Indian Partnership Act "Cartons". October 23, 1978.

Class 10. No. 147601. Industrial & Commercial Traders, Swastik Industrial Compound, Ram Baug, Swami Vivekanand Road, Malad (West), Bombay-400064, Maharashtra, India, an Indian partnership Firm. "Footwear". September 26, 1978.

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**S. VEDARAMAN**

Controller-General of Patents, Designs  
and Trade Marks

